Assistant's Instruments & Console User's Guide

CE 0088

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Intended Use

This assistant's instruments unit is intended to provide vacuum to remove any patient oral debris or tissue created during dental examinations and procedures. It is also intended to provide patients with water for oral rinsing through use of a syringe.

Features

The Midmark assistant's instruments unit & console has . . .

- water quick connect port located on console (applies only to units with console).
- water quick connect port located under assistant's instrument head.
- air quick disconnect port on console (applies only to units with console).
- a selector switch for self-contained water or "city water".
- two plugged holes to allow easy future installation of optional accessories (applies only to units with console).
- an assistant's head mounted on an arm assembly which allows it to be positioned on either side of chair easily and quickly.
- an assistant's head which provides vacuum with one saliva ejector and one/two high volume evacuator (HVE).
- a solids collector which is hidden from patients view, but can be quickly accessed for cleaning or retrieval of fillings.
- an optional touchpad to allow an assistant to position/reposition patient during a procedure without having to get up.

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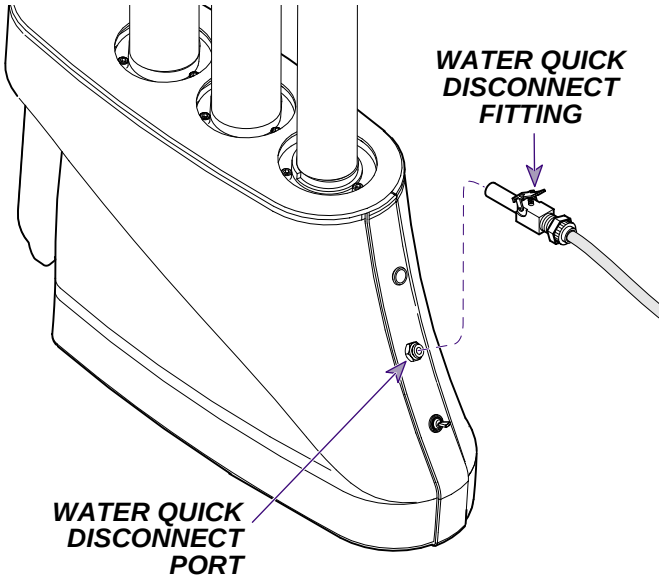
Part Number: 003-1112-00 Rev. F (9/03)

Console Operation (Applies Only To Units With Console)

Water Quick Connect Port

To connect an accessory to water quick disconnect port, simply insert fitting of accessory hose into water quick disconnect.



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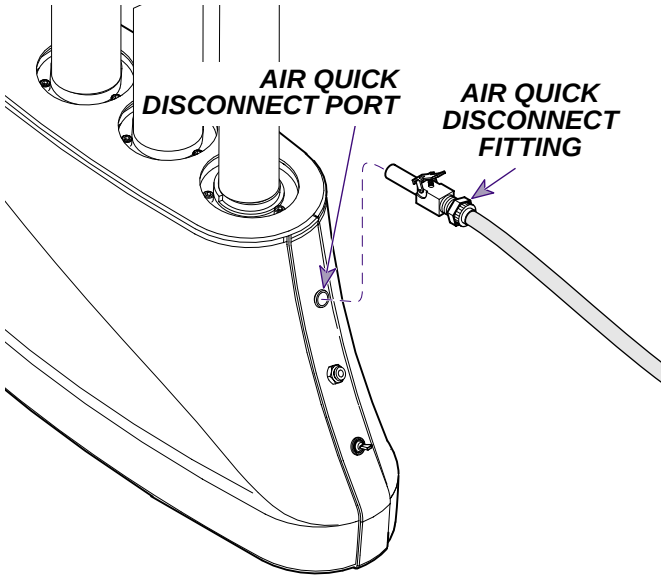
Air Quick Connect Port

To connect an accessory to air quick disconnect port, simply insert fitting of accessory hose into air quick disconnect.



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Selecting Delivery System Water Type

To select type of water to be used in delivery system, flip **DELIVERY SYSTEM WATER switch** to **water bottle** to select self-contained water for use **or** flip **DELIVERY SYSTEM WATER switch** to **city water** to select "city water" for use.

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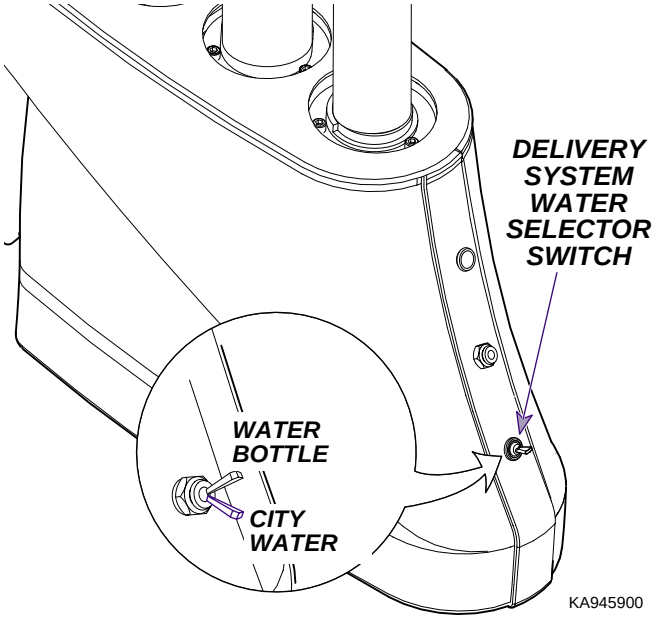
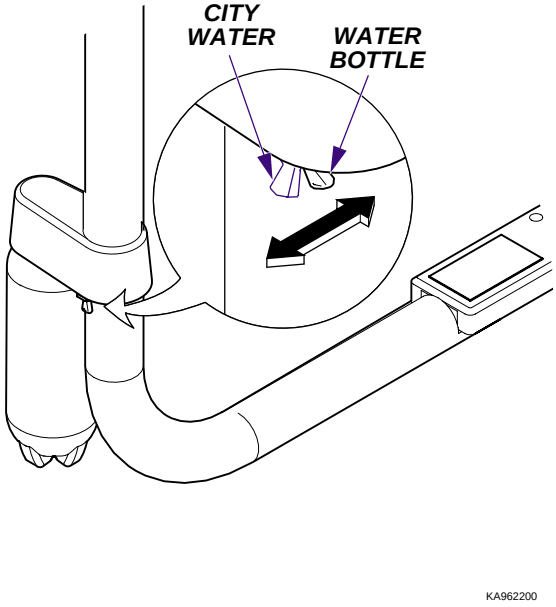
To refill water bottle, refer to ***Refilling Water Bottle*** in Delivery Unit user's guide.

Console Version



LR Version

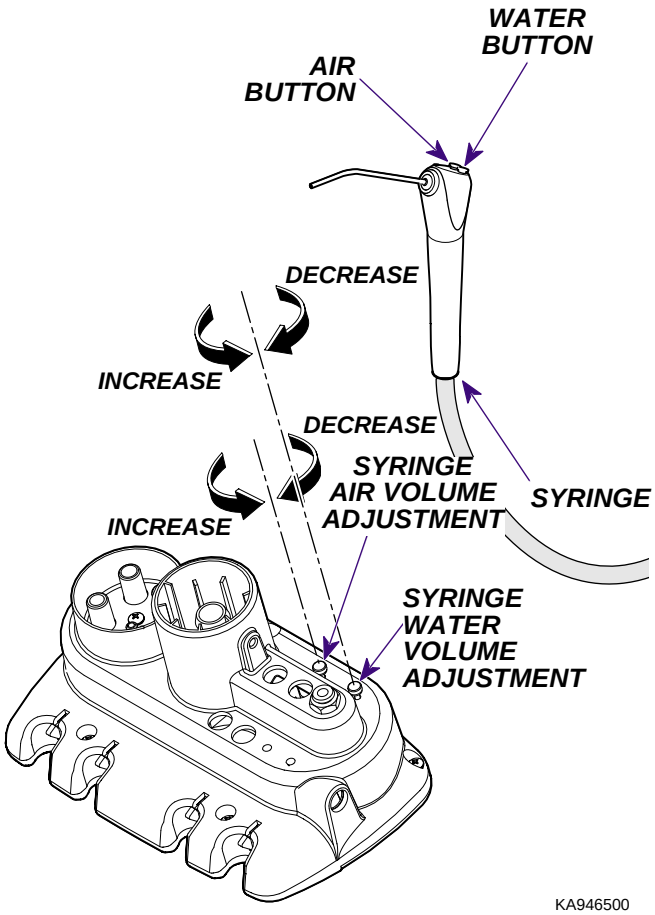


To operate standard 3-way air-water syringe:

1) Turn on delivery system power (Refer to ***Powering Up Delivery System*** in delivery head user's guide).

2) As desired, select self-contained water by flipping **DELIVERY SYSTEM WATER switch** to **water bottle** or select **"city water"** by flipping **DELIVERY SYSTEM WATER switch** to **city water**.

3) Select syringe by removing syringe from syringe station.



Assistant's Unit Operation

Syringe Operation

A standard delivery unit head contains one 3-Way air-water syringe for an assistant.

4) Operate syringe by pressing **AIR** button to get air spray and **WATER** button to get water/air spray.

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5) ***If necessary, perform adjustments*** listed below to optimize syringe performance for your preference.

NOTE
Both of following adjustments effect spray pattern of syringe water. So, adjustment of both air and water volume may be necessary to achieve desired water spray pattern.

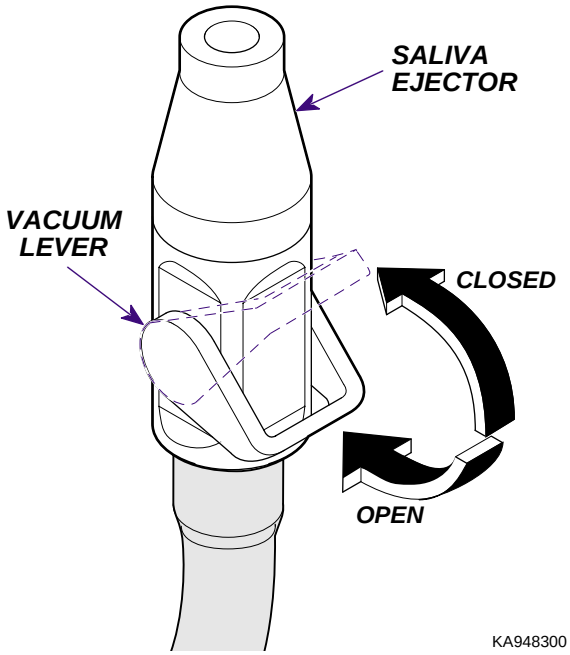
- ***Adjust syringe air volume*** by rotating **SYRINGE AIR VOLUME ADJUSTMENT knob** until desired volume of air from syringe tip ***and*** desired water spray pattern is achieved.
- ***Adjust syringe water volume*** by rotating **SYRINGE WATER VOLUME ADJUSTMENT knob** until desired volume of water from syringe tip ***and*** desired water spray pattern is achieved.

Saliva Ejector Operation

To operate saliva ejector:

NOTE
Before operating saliva ejector, the vacuum source which supplies operatory must be turned on (whether it be a central vacuum system for entire office/facility or an individual operatory vacuum system).

Remove saliva ejector from saliva ejector station and then rotate **VACUUM LEVER** to **open** position when suction is desired and then back to **closed** position to stop suction when completed.



High Volume Ejector (HVE) Operation

To operate HVE ejector:

NOTE
Before operating HVE ejector, the vacuum source which supplies operatory must be turned on (whether it be a central vacuum system for entire office/facility or an individual operatory vacuum system).

Remove HVE ejector from HVE ejector station and then rotate **VACUUM LEVER** to **open** position

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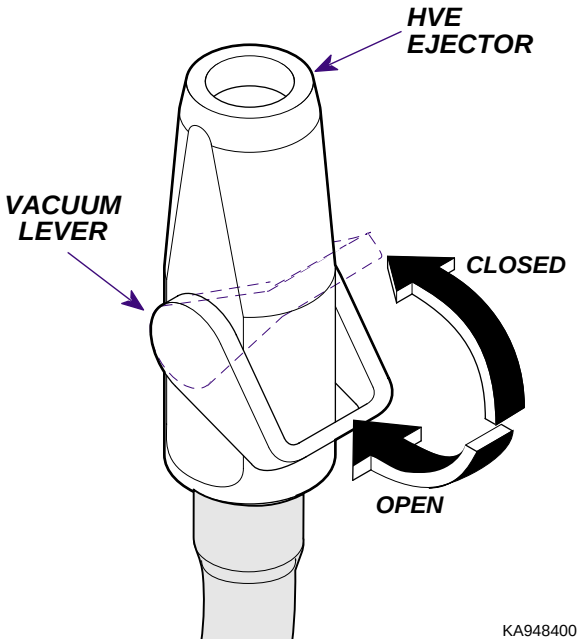
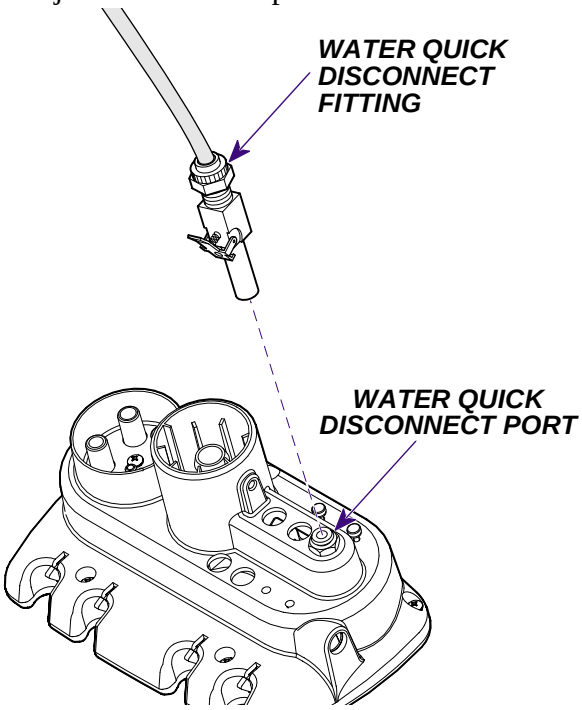
when suction is desired and then back to **closed** position to stop suction when completed.



Water Quick Connect Port

To connect an accessory to water quick disconnect port, simply insert fitting of accessory hose into water quick disconnect. There is no water volume adjustment for this port.



Infection Control / Cleaning

General Cleaning

EQUIPMENT ALERT
Do not use phenolics, Glutaraldehyde, or Iodophor to clean the unit. These chemicals are too harsh and will eventually damage the plastic and painted components of the unit. Also, do not use "strong" or "full strength" solutions (must be less than 1%) of alcohol or bleach to clean the unit; these solutions tend to discolor plastic components over time.

Touch Surfaces (controls and handles) - Use barrier protection between patients. At end of clinical-day, wipe touch surfaces with a mild soap and water solution on a lint-free cloth; then disinfect using a Quaternary disinfectant.

General Plastic Surfaces - Wipe periodically using a mild soap and water solution on a lint-free cloth. Wring excess solution from lint-free cloth before wiping. Disinfect as necessary using a Quaternary disinfectant.

General Painted Surfaces - Wipe periodically with a mild soap and water solution on a lint-free cloth. Wring excess solution from lint-free cloth before wiping. Disinfect as necessary using a Quaternary disinfectant.

Solids Collector Cleaning / Maintenance

To maintain the solids collector:

1) Turn **off** vacuum supply for operatory / facility.

2) Lift and remove collector cap so collector basket can be accessed.

NOTE
If collector basket is difficult to remove, wet inside of collector housing with syringe water. The water will soften amalgam for easier removal.

3) Remove collector basket from vacuum collector.

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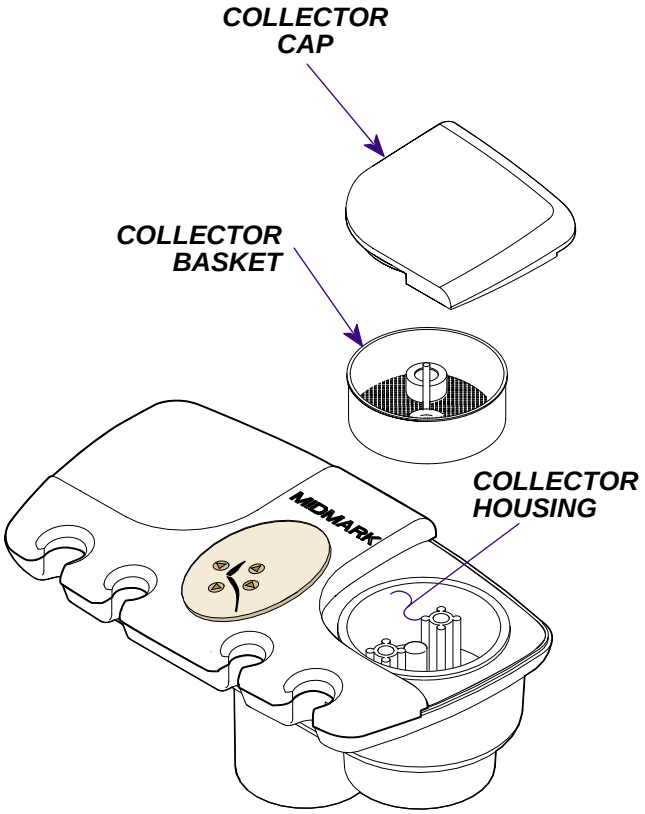


KA948700

4) Empty collector basket and then scrub it with a brush until all debris is removed. If necessary, also scrub out inside surfaces of collector housing.

5) When clean, re-install collector basket in collector housing and then reinstall collector cap.

Vacuum System Cleaning / Maintenance

EQUIPMENT ALERT
Make sure all recommended manufacturer's directions are followed. Also, only use a cleanser specially formulated for dental vacuum systems on Midmark tubing and ejectors. Failure to use correct cleansers and methods as prescribed by vacuum manufacturer could result in damage or diminished vacuum to tubing, ejectors and vacuum system or a vacuum system that is not properly maintained.

To maintain the vacuum system, refer to the vacuum system manufacturer's user's guide for directions.

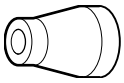
Replacement Parts

The following parts can be purchased from your dealer:

Replacement Collector Basket
Part Number: 151894

Saliva Ejector Replacement Vacuum Lever
Part Number: 121045

Saliva Ejector Replacement Ejector Tip
Part Number: 121317



High Volume Ejector Replacement Vacuum Lever
Part Number: 121046

Syringe Replacement Syringe Tip
Part Number: 120514

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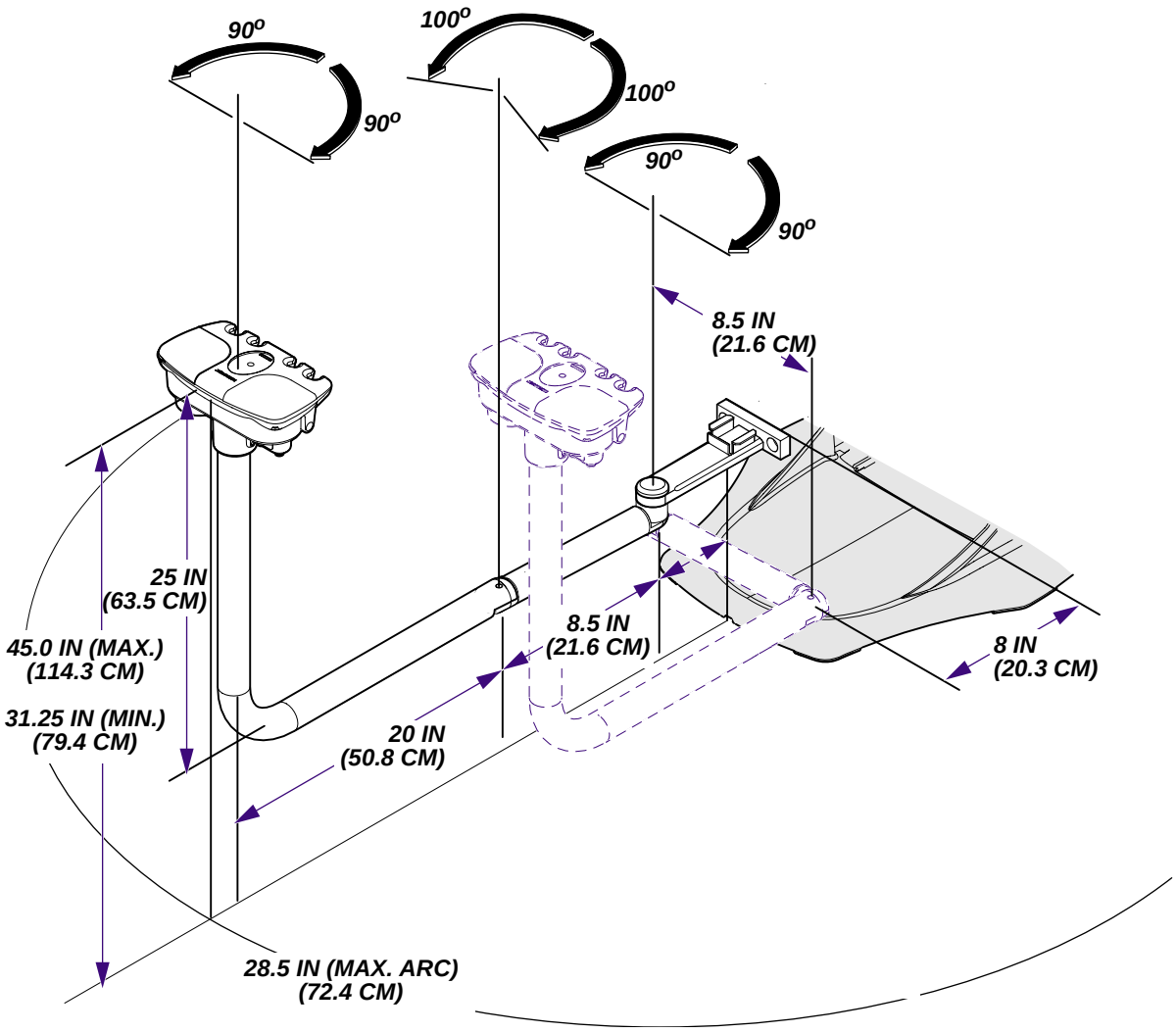
Specifications

RANGES OF MOTION



Classifications..... Class 1, Type B Applied Part,
Ordinary Equipment,
Intermittent Operation

Certifications..... UL-2601,
CAN/CSA-C22.2 No. 601.1

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MIDMARK

General Information

Electromagnetic Interference

Midmark dental operatory components are designed and built to minimize electromagnetic interference with other devices. However, if interference is noticed between another device and this operatory, remove interfering device from room or plug product into an isolated circuit.

Symbols & Notes

DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. The DANGER symbol is limited to the most extreme situations.

WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

EQUIPMENT ALERT

Indicates an imminently or potentially hazardous situation which, if not avoided, will or may result in serious, moderate, or minor equipment damage.

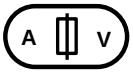
NOTE

Amplifies an operating procedure, practice, or condition.

Type B, Applied Part

Consult operator's manual for important information.

Dangerous voltage / shock hazard.

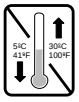


Fuse rating specification

Protective earth ground

Fragile

Proper shipping orientation



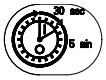
Minimum and maximum storage temperatures

Keep dry

Hot surface

ON

STANDBY



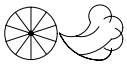
Duty cycle: (motor run time 30 sec. on, 5 min. off).

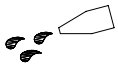
Cup Fill water flow adjustment.

Bowl Flush water flow adjustment

"City" water

Self-contained (distilled) water


Handpiece drive air adjustment

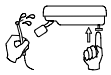

Handpiece/Syringe coolant water flow adjustment

Handpiece coolant air adjustment / Air Quick Disconnect

Water Quick Disconnect

Unlocked (Chair rotation)

Locked (Chair rotation)


Handpiece flush button
(***Note***: Remove handpiece from station; then remove handpiece from tubing connector).

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